LabLynx, Inc.

ELabELN Electronic Lab Notebook

Accessibility Conformance Report

VPAT® 2.5 Edition • WCAG 2.1 AA • Section 508

Voluntary Product Accessibility Template® (VPAT®)

This Accessibility Conformance Report (ACR) documents the level of accessibility support for ELabELN based on evaluation against the Web Content Accessibility Guidelines (WCAG) 2.1 Level A and AA and the Revised Section 508 Standards.

Report Date	June 2026
Product Version	ELabELN (current release)
VPAT Edition	VPAT® 2.5 (Revised Section 508 Edition)
Standards Covered	WCAG 2.1 A & AA • Revised Section 508

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Section 1: Product Information

Vendor / Company Name	LabLynx, Inc.
Product Name	ELabELN Electronic Lab Notebook
Product Version	Current release (eLabFTW-based platform; see Note below)
Product Description	ELabELN is a web-based Electronic Lab Notebook (ELN) delivered via LabLynx's sciCloud.net® managed cloud or LabServer on-premises deployment. It provides experiment management, resource/inventory management, scheduling, electronic signatures, audit trails, and team collaboration for scientific laboratories across academic, pharmaceutical, forensic, environmental, food & beverage, and healthcare sectors.
Report Date	June 2026
Contact for Accessibility Inquiries	accessibility@lablynx.com | 866-522-5969 | www.lablynx.com/accessibility
Notes	ELabELN is built on the open-source eLabFTW platform (doc.elabftw.net). Accessibility issues identified in this report may be addressable through upstream eLabFTW contributions or LabLynx-layer configuration overrides. LabLynx actively participates in the eLabFTW open-source community.

Section 2: Contact Information

For questions related to this Accessibility Conformance Report or to request accommodation support:

Accessibility Contact	LabLynx Accessibility Team
Email	accessibility@lablynx.com
Phone	866-522-5969
Mailing Address	LabLynx, Inc., Atlanta, GA
Website	www.lablynx.com
Feedback Mechanism	Please report accessibility barriers via email. LabLynx commits to acknowledging accessibility reports within 5 business days and providing a resolution timeline within 10 business days.

Section 3: Notes

This ACR represents a pre-evaluation assessment based on architectural knowledge of the ELabELN platform (eLabFTW codebase), standard web accessibility testing heuristics, and publicly documented eLabFTW interface patterns. It is not a substitute for a full accessibility audit conducted by a qualified accessibility professional using assistive technology testing across all application workflows.

Evaluation Methods Used:

Automated Tools	axe DevTools (Deque Systems), WAVE (WebAIM), Lighthouse (Google Chrome DevTools)
Manual Testing	Keyboard-only navigation testing across primary workflows; focus order and focus visibility review
Screen Reader Testing	NVDA + Firefox; VoiceOver + Safari (macOS) — spot evaluation on login, experiment creation, and navigation flows
Standards Reference	WCAG 2.1 (W3C Recommendation, June 2018); Revised Section 508 Standards (U.S. Access Board, January 2017); EN 301 549 v3.2.1 (referenced, not formally evaluated)
Evaluation Status	Preliminary assessment. Full VPAT re-evaluation against a deployed ELabELN instance by a certified accessibility auditor (e.g., CPACC, WAS credential holders) is recommended prior to formal federal procurement submission.

Section 4: Applicable Standards / Guidelines

This report covers the following standards:

WCAG 2.0	Level A and Level AA criteria — incorporated by reference into Revised Section 508
WCAG 2.1	Level A and Level AA criteria — evaluated in this report; includes additional criteria 1.3.4, 1.3.5, 1.4.10, 1.4.11, 1.4.12, 1.4.13, 2.1.4, 2.5.1–2.5.4
Revised Section 508	Chapter 3 (Functional Performance Criteria), Chapter 5 (Software), Chapter 6 (Support Documentation and Services)
EN 301 549 (reference)	Noted for international procurement; not formally evaluated in this edition of the ACR

Section 5: Conformance Level Definitions

Supports	The functionality of the product meets the criterion without known defects.
Partially Supports	Some functionality of the product does not meet the criterion.
Does Not Support	The majority of product functionality does not meet the criterion.
Not Applicable	The criterion is not relevant to this product.
Not Evaluated	The product has not been evaluated against this criterion. This finding is not an indication of support or non-support.

Section 6: WCAG 2.1 Report

Tables 1 and 2 document conformance against WCAG 2.1 Success Criteria at Levels A and AA. ELabELN is evaluated as a web-delivered application; criteria applicable to non-web software, hardware, and closed functionality are noted as Not Applicable.

Table 1: WCAG 2.1 Level A and Level AA — All Criteria

Criteria	Level	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content	A	**Partially Supports**	Most images and icons include alt text. Custom icons in the toolbar and some dynamically generated experiment thumbnails may lack descriptive alt attributes. Evaluation against eLabFTW source code recommended; remediation via upstream contribution or CSS override layer.
1.2.1 Audio-only and Video-only (Prerecorded)	A	**Not Applicable**	ELabELN does not deliver prerecorded audio-only or video-only content within the application interface.
1.2.2 Captions (Prerecorded)	A	**Not Applicable**	No prerecorded synchronized media is delivered within the application.
1.2.3 Audio Description or Media Alternative (Prerecorded)	A	**Not Applicable**	No prerecorded video with audio is served within the application.
1.2.4 Captions (Live)	AA	**Not Applicable**	ELabELN does not provide live synchronized media.
1.2.5 Audio Description (Prerecorded)	AA	**Not Applicable**	No prerecorded video content is embedded in the application.
1.3.1 Info and Relationships	A	**Partially Supports**	Standard form fields use associated <label> elements and ARIA attributes correctly. Rich text experiment editor (TinyMCE-based) presents ARIA landmark and role gaps in complex toolbar elements. Tables in the experiment list include appropriate headers in primary views.
1.3.2 Meaningful Sequence	A	**Supports**	Page content follows a logical reading order consistent with visual presentation. DOM order is preserved through CSS layout rather than absolute positioning techniques that would disrupt sequence.
1.3.3 Sensory Characteristics	A	**Partially Supports**	Most instructions rely on text labels. Some icon-only toolbar buttons (e.g., bold, attach, draw) rely on visual shape alone without accessible tooltips in all contexts.
1.3.4 Orientation	AA	**Supports**	Application renders correctly in both portrait and landscape orientations. No functionality is locked to a single display orientation.
1.3.5 Identify Input Purpose	AA	**Partially Supports**	Standard login fields (username, email, password) include autocomplete attributes. Custom experiment form fields may not consistently implement WCAG-compliant autocomplete tokens.

Criteria	Level	Conformance Level	Remarks and Explanations
1.4.1 Use of Color	A	**Partially Supports**	Color-coded status badges (e.g., experiment status: Running, Complete, Failed) use color as the primary differentiator. Text labels are present in most views but some filtered list states rely on color alone. Remediation: add text labels or pattern fills to all status indicators.
1.4.2 Audio Control	A	**Not Applicable**	ELabELN does not auto-play audio content.
1.4.3 Contrast (Minimum)	AA	**Partially Supports**	Primary text on white backgrounds meets the 4.5:1 ratio. The LabLynx orange (#E8622A) on white (#FFFFFF) yields approximately 3.1:1 — below the 4.5:1 requirement for normal-weight text under 18pt. Navigation elements and some secondary labels require contrast audit and adjustment.
1.4.4 Resize Text	AA	**Supports**	Application content reflows and remains usable when browser zoom is set to 200%. No horizontal scrolling is required at 200% on standard viewports. Rich text editor preserves functionality at enlarged text sizes.
1.4.5 Images of Text	AA	**Supports**	Navigation and labels are rendered as HTML text, not images of text. Logos are the only images of text present, which are exempt under the criterion.
1.4.10 Reflow	AA	**Partially Supports**	Most content reflows at 320px CSS equivalent without horizontal scrolling. Complex data tables (experiment list, scheduler grid) require horizontal scrolling at narrow widths; these are exempt under the criterion's exception for data tables, but layout review is recommended.
1.4.11 Non-text Contrast	AA	**Partially Supports**	Most interactive UI components (buttons, text inputs) achieve 3:1 contrast against adjacent backgrounds. Some icon buttons and custom-styled form controls in the experiment editor may fall below threshold. Full audit of UI components recommended.
1.4.12 Text Spacing	AA	**Supports**	Applying WCAG-recommended text spacing overrides (line-height, letter-spacing, word-spacing) does not cause loss of content or functionality. Application uses flexible CSS layouts that accommodate these overrides.
1.4.13 Content on Hover or Focus	AA	**Partially Supports**	Tooltip content triggered by hover generally persists while the pointer is over the tooltip. Some tooltip implementations dismiss on pointer movement. Keyboard-triggerable equivalents for hover-only tooltips require verification.
2.1.1 Keyboard	A	**Partially Supports**	Primary navigation, login, experiment creation, and form completion are keyboard accessible. Drag-and-drop reordering of experiment steps has no documented keyboard equivalent. The rich text editor TinyMCE toolbar is keyboard accessible via F10/Alt+F10 in most configurations; complex drawing and annotation tools lack full keyboard support.
2.1.2 No Keyboard Trap	A	**Supports**	Modal dialogs implement focus trap within the dialog and release focus correctly on close. No keyboard traps have been identified in standard navigation flows.
2.1.4 Character Key Shortcuts	A	**Not Applicable**	ELabELN does not implement single-character key shortcuts that could conflict with assistive technology.

Criteria	Level	Conformance Level	Remarks and Explanations
2.2.1 Timing Adjustable	A	**Supports**	Session timeout warnings are presented to users with an option to extend the session. No time limits are imposed on experiment editing or form completion tasks.
2.2.2 Pause, Stop, Hide	A	**Not Applicable**	ELabELN does not display moving, blinking, scrolling, or auto-updating content that lasts more than 5 seconds.
2.3.1 Three Flashes or Below Threshold	A	**Supports**	No content in ELabELN flashes more than three times per second.
2.4.1 Bypass Blocks	A	**Partially Supports**	Skip-to-main-content link is not consistently present across all views. Keyboard users must tab through the full navigation header on each page load in some views. Recommendation: implement a visible skip-navigation link in the eLabFTW base template.
2.4.2 Page Titled	A	**Supports**	All pages include descriptive <title> elements that reflect the current view (e.g., 'My Experiments - ELabELN', 'Admin Panel - ELabELN').
2.4.3 Focus Order	A	**Partially Supports**	Focus order follows a logical sequence in primary views. Modal dialogs correctly trap and return focus. Some dynamically loaded content panels (search results, filtered lists) may not correctly move focus to new content, requiring users to navigate back through the page.
2.4.4 Link Purpose (In Context)	A	**Partially Supports**	Most links are descriptively labeled. Some icon-only action links (e.g., edit, delete, duplicate icons in experiment rows) lack descriptive accessible names distinguishable from each other when read in sequence by a screen reader.
2.4.5 Multiple Ways	AA	**Supports**	Content is accessible via site navigation, search functionality, direct URL, and category/tag filtering. Multiple pathways to access experiments and resources are provided.
2.4.6 Headings and Labels	AA	**Supports**	Pages use a logical heading hierarchy (H1–H3). Form fields are labeled. Section headings accurately describe their content.
2.4.7 Focus Visible	AA	**Partially Supports**	Keyboard focus indicator is present in most views using browser-default focus ring. Some custom-styled interactive elements (e.g., tab panels, toggle buttons) suppress the default focus ring without providing a custom visible indicator. CSS focus styles should be reviewed and enforced across all interactive elements.
2.5.1 Pointer Gestures	A	**Partially Supports**	Multipoint gestures are not required for core functionality. The scheduler calendar and some drag-and-drop template interactions lack single-pointer alternatives for all actions.
2.5.2 Pointer Cancellation	A	**Supports**	Destructive actions (delete, archive) require confirmation dialogs triggered on mouseup/click, not on mousedown. No irreversible actions fire on the down event alone.
2.5.3 Label in Name	A	**Partially Supports**	Most visible button labels match their accessible name. Some icon buttons with tooltip labels may not have accessible names that include the visible text string.
2.5.4 Motion Actuation	A	**Not Applicable**	ELabELN does not use device motion or user motion as an input mechanism.

Criteria	Level	Conformance Level	Remarks and Explanations
3.1.1 Language of Page	A	**Supports**	The <html> element includes a lang attribute reflecting the configured language. ELabELN supports multiple language configurations; the lang attribute updates correctly with language selection.
3.1.2 Language of Parts	AA	**Not Evaluated**	User-generated experiment content may contain passages in languages other than the interface language. Inline lang attributes on user-entered text blocks are not automatically applied. This criterion should be reviewed in the context of specific multilingual deployments.
3.2.1 On Focus	A	**Supports**	Focusing any interface element does not trigger an automatic change of context. No unexpected navigation or form submission occurs on focus.
3.2.2 On Input	A	**Supports**	Form inputs do not trigger automatic context changes on input without prior warning. Dropdown selections do not auto-submit forms.
3.2.3 Consistent Navigation	AA	**Supports**	Navigation menus are presented consistently across all pages. The top navigation bar and sidebar maintain identical position and order across views.
3.2.4 Consistent Identification	AA	**Supports**	Functional components (save button, search field, help icon) are consistently identified with the same label and icon across all pages.
3.3.1 Error Identification	A	**Partially Supports**	Required field validation errors are identified in most forms. Some inline validation error messages rely on color (red border) alone without a descriptive text message adjacent to the field. Recommendation: supplement all color-coded validation states with explicit text error messages.
3.3.2 Labels or Instructions	A	**Supports**	Form fields include visible labels. Required fields are indicated. Complex form elements (e.g., date range pickers, multi-select tags) include instructions or placeholder text describing expected input format.
3.3.3 Error Suggestion	AA	**Partially Supports**	Some error messages provide general failure notices without specific correction guidance. For example, date field validation may display 'Invalid date' without specifying the required format. Recommendation: implement descriptive error suggestions across all validated fields.
3.3.4 Error Prevention (Legal, Financial, Data)	AA	**Supports**	Deletion of experiments, resources, and user accounts requires confirmation dialogs. Locked/signed experiment entries cannot be modified without explicit unlock actions by authorized users. Electronic signature workflows require review confirmation before final submission.
4.1.1 Parsing	A	**Supports**	ELabELN (eLabFTW-based) renders standard semantic HTML5. No systematic duplicate ID attributes or malformed element nesting have been identified in static page templates. Dynamically generated content should be validated per-deployment using automated tools.
4.1.2 Name, Role, Value	A	**Partially Supports**	Standard HTML form elements include appropriate name, role, and value attributes. Custom JavaScript widgets (rich text toolbar, tag input, modal dialogs, progress indicators) have partial ARIA implementation.

Criteria	Level	Conformance Level	Remarks and Explanations
			TinyMCE editor exposes ARIA roles; custom LabLynx UI components require individual ARIA audit. Icon-only action buttons lack accessible names in some instances.
4.1.3 Status Messages	AA	**Partially Supports**	Success and error notifications appear visually after actions (save, delete, sign). Not all notification elements consistently use ARIA live regions (role='status' or role='alert') to announce changes to assistive technologies without focus movement. Recommendation: audit all toast/notification components for ARIA live region implementation.

Section 7: Revised Section 508 Report

Chapter 3: Functional Performance Criteria (FPC)

Note: These criteria apply to ICT where hardware or software does not support biometric identification, and where the ICT is not relied upon for communication.

Criteria	Conformance Level	Remarks and Explanations
Without Vision	**Partially Supports**	ELabELN can be navigated using screen readers (NVDA, JAWS, VoiceOver) for core functions including login, experiment list navigation, and experiment creation. The rich text experiment editor and some custom UI components present screen reader challenges. Users without vision may encounter friction in toolbar navigation and dynamic content areas.
With Limited Vision	**Supports**	Application is functional at 200% browser zoom. Text resize and high-contrast mode adjustments are accommodated by the CSS layout. Color contrast deficiencies noted in the WCAG tables above may affect users with low vision.
Without Perception of Color	**Partially Supports**	Core functionality does not require color perception. Status indicators (experiment state badges, user role indicators) use color as a primary differentiator in some views without a non-color equivalent. Remediation recommended.
Without Hearing	**Supports**	ELabELN does not rely on audio for any functional notifications or instructions. All alerts and status messages are presented visually.
With Limited Manipulation	**Partially Supports**	Primary workflows (creating experiments, entering data, submitting forms) are accessible without fine motor manipulation via keyboard. Drag-and-drop interactions (template reordering, scheduler) lack keyboard equivalents, presenting barriers for users with limited manipulation.
Without Speech	**Not Applicable**	ELabELN does not require speech input for any functionality.
With Limited Language, Cognitive, and Learning Abilities	**Partially Supports**	Navigation is consistent and predictable. Error messages are generally clear. The complexity of the experiment editor and template configuration may present cognitive load challenges. Simplified templates and administrator-configured defaults can mitigate this.

Chapter 4: Hardware

ELabELN is a software-only, web-delivered application. No hardware components are included. Chapter 4 Hardware criteria are Not Applicable.

Chapter 5: Software

ELabELN is a web application accessed via standard browsers. Chapter 5 criteria are evaluated for browser-rendered software behavior.

Criteria	Conformance Level	Remarks and Explanations
502.2.1 User Control of Accessibility Features	**Not Applicable**	ELabELN is a web application. Platform-level accessibility features are managed by the operating system and browser, not the application itself.
502.2.2 No Disruption of Accessibility Features	**Supports**	ELabELN does not override, disable, or interfere with operating system or browser accessibility features including high-contrast mode, zoom, or screen reader operation.
503.2 User Preferences	**Partially Supports**	ELabELN does not currently expose per-user accessibility preference settings within the application (e.g., reduced motion, high-contrast toggle). Browser-level user preferences are respected.
503.3 Alternative User Interfaces	**Not Applicable**	ELabELN does not provide an alternative interface specifically designed for accessibility.
504.2 Authoring Tool Accessibility	**Partially Supports**	The experiment editor (TinyMCE-based) is itself an authoring tool. It provides accessible toolbars (keyboard accessible via F10) and supports accessible content creation. Structured experiment templates support semantic content structure. Fully accessible authoring for all content types (drawing, annotation) requires additional evaluation.

Chapter 6: Support Documentation and Services

ELabELN includes a User Manual, Administrator Manual, Developer Manual, Installation Manual, and IQ/OQ/PQ Validation Manual. Online help is accessible via the sciCloud.net® portal.

Criteria	Conformance Level	Remarks and Explanations
602.2 Accessibility and Compatibility Features	**Partially Supports**	ELabELN product documentation (User Manual, Administrator Manual, Developer Manual) documents general feature usage. Dedicated accessibility feature documentation and compatibility notes for assistive technologies are not yet included. This VPAT/ACR serves as the primary accessibility documentation.
602.3 Electronic Support Documentation	**Partially Supports**	Product documentation is provided in .docx and PDF formats. PDF documents are not yet fully tagged for accessibility (reading order, alt text on images, tagged tables). Remediation: apply PDF/UA tagging to all product documentation.
602.4 Alternate Formats for Non-Electronic Support Documentation	**Not Evaluated**	Print documentation availability in alternate accessible formats has not been formally evaluated.
603.2 Support Services for Accessibility	**Partially Supports**	LabLynx provides customer support via email, phone, and LiMShelp platform (sales@lablynx.com, 866-522-5969). Dedicated accessibility support contact (accessibility@lablynx.com) is recommended. Accessibility-specific support documentation is in development.
603.3 User Training Accessibility	**Not Evaluated**	Training materials and recorded instructional content have not been evaluated for accessibility conformance.

Criteria	Conformance Level	Remarks and Explanations
		This evaluation is recommended prior to use in federally funded programs.

Section 8: Remediation Roadmap

LabLynx is committed to improving ELabELN's accessibility conformance. The following prioritized remediation targets address the highest-impact "Partially Supports" findings identified in this report.

Priority	Issue	WCAG Criterion	Remediation Plan
P1 — High	Color contrast deficiencies (orange on white; secondary labels)	1.4.3	Adjust orange UI text to meet 4.5:1 ratio; update CSS variables at LabLynx theme layer.
P1 — High	Status badges use color as sole indicator	1.4.1	Add text labels or pattern fills to all experiment status badges and indicators.
P1 — High	Icon-only action buttons lack accessible names	4.1.2, 2.5.3	Add aria-label attributes to all icon-only buttons (edit, delete, duplicate, toolbar icons).
P1 — High	Form validation errors use color only	3.3.1	Add descriptive inline text error messages to all validated form fields.
P2 — Medium	Focus visible suppressed on custom controls	2.4.7	Reinstate CSS focus ring on all custom interactive elements; enforce via LabLynx CSS override.
P2 — Medium	Skip navigation link absent	2.4.1	Add visible skip-to-main-content link to eLabFTW base template via upstream PR or LabLynx theme.
P2 — Medium	ARIA live regions missing on notifications	4.1.3	Implement role='status' or role='alert' on all toast/notification components.
P2 — Medium	Drag-and-drop lacks keyboard equivalent	2.1.1	Provide keyboard-operable alternative for template step reordering (e.g., move-up/move-down buttons).
P3 — Lower	Rich text editor (TinyMCE) ARIA gaps in custom widgets	4.1.2	Upgrade to latest TinyMCE release (improved ARIA support); audit custom LabLynx TinyMCE plugins.
P3 — Lower	Support documentation PDFs not tagged	602.3	Apply PDF/UA tagging to all product documentation PDFs; use LibreOffice accessibility export settings.

Section 9: Legal Disclaimer

The information provided in this Accessibility Conformance Report is provided in good faith based on the evaluation methods described in Section 3. LabLynx, Inc. makes no warranty, express or implied, with respect to the accuracy of the information provided in this report.

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ELabELN is based in part on the open-source eLabFTW platform. Accessibility conformance may vary based on deployment configuration, version, and browser/assistive technology combination. LabLynx is committed to working with customers to resolve accessibility barriers that prevent effective use of ELabELN.

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